

SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

*Streptococcus pneumoniae* Antigens and Vaccines

the specification of which was filed on **October 30, 1997** as U.S. Application Serial No. **08/961,083**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed  
Yes                  No

\_\_\_\_\_  
(Number)                      (Country)                      (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/029,960                      10/31/96  
(Application Serial No.)                      (Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application Serial No.)                      (Filing Date)                      (Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor: Gil H. Choi

Inventor's signature: *Gil H. Choi* Date: 9/14/99  
Residence: 11429 Potomac Oaks Drive, Rockville, MD 20850 Citizenship: KR  
Post Office Address: same as above

Full name of first joint inventor: Charles A. Kunsch

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 4083 Spalding Hollow Norcross, GA 30092 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven C. Barash

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 111 Watkins Pond Blvd. #301 Rockville, MD 20850 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Brian Dougherty

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 10 Rosemary Lane, Killingworth, CT 06419 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Michael R. Fannon

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 13501 Rippling Brook Drive, Silver Spring, MD 20906 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US  
Post Office Address: same as above

09765272 012201  
FOC2210 2/22/96

## *Streptococcus pneumoniae* Antigens and Vaccines

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

<u>Priority Claimed</u>	
Yes	No

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor: Gil H. Choi

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 11429 Potomac Oaks Drive, Rockville, MD 20850 Citizenship: KR  
Post Office Address: same as above

Full name of first joint inventor: Charles A. Kunsch

Inventor's signature: Charles A. Kunsch Date: 9/14/97  
Residence: 4083 Spalding Hollow Norcross, GA 30092 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven C. Barash

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 111 Watkins Pond Blvd. #301 Rockville, MD 20850 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Brian Dougherty

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 10 Rosemary Lane, Killingworth, CT 06419 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor:

Michael R. Fannon

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 13501 Rippling Brook Drive, Silver Spring, MD 20906

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

Craig A. Rosen

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882

Citizenship: US

Post Office Address: same as above

09765372 012201

## SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### *Streptococcus pneumoniae* Antigens and Vaccines

the specification of which was filed on **October 30, 1997** as U.S. Application Serial No. **08/961,083**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed  
Yes No

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/029,960  
(Application Serial No.)

10/31/96  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor: Gil H. Choi

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 11429 Potomac Oaks Drive, Rockville, MD 20850 Citizenship: KR  
Post Office Address: same as above

Full name of first joint inventor: Charles A. Kunsch

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 4083 Spalding Hollow Norcross, GA 30092 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven C. Barash

Inventor's signature: Steven Barash Date: 9/15/99  
Residence: 111 Watkins Pond Blvd. #301 Rockville, MD 20850 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Brian Dougherty

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 10 Rosemary Lane, Killingworth, CT 06419 Citizenship: US  
Post Office Address: same as above



Full name of additional joint inventor:

Michael R. Fannon

Inventor's signature:

Michael R. Fannon

Date: 9/15/99

Residence:

13501 Rippling Brook Drive, Silver Spring, MD 20906

Citizenship: US

Post Office Address:

same as above

Full name of additional joint inventor:

Craig A. Rosen

Inventor's signature:

Craig A. Rosen

Date: 9/15/99

Residence:

22400 Rolling Hill Road, Laytonsville, MD 20882

Citizenship: US

Post Office Address:

same as above

00765272 012201  
T02210 2/25/96

SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

***Streptococcus pneumoniae* Antigens and Vaccines**

the specification of which was filed on October 30, 1997 as U.S. Application Serial No. 08/961,083.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed  
Yes                  No

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/029,960  
(Application Serial No.)

10/31/96  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor: Gil H. Choi

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 11429 Potomac Oaks Drive, Rockville, MD 20850 Citizenship: KR  
Post Office Address: same as above

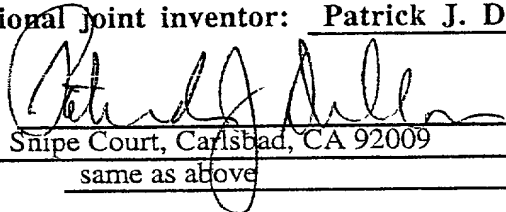
Full name of first joint inventor: Charles A. Kunsch

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 4083 Spalding Hollow Norcross, GA 30092 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven C. Barash

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 111 Watkins Pond Blvd. #301 Rockville, MD 20850 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature:  Date: 9/20/99  
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Brian Dougherty

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 10 Rosemary Lane, Killingworth, CT 06419 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor:

Michael R. Fannon

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 13501 Rippling Brook Drive, Silver Spring, MD 20906

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

Craig A. Rosen

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882

Citizenship: US

Post Office Address: same as above

09765272.012204  
T02210" 2/259/66

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a screen. On the screen, there is a 3D model of a hand and a 2D image of a target. The participant's hand is positioned over the target. The diagram is labeled with 'Participant', 'Screen', 'Hand', and 'Target'.

## *Streptococcus pneumoniae* Antigens and Vaccines

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor: Gil H. Choi

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 11429 Potomac Oaks Drive, Rockville, MD 20850 Citizenship: KR  
Post Office Address: same as above

Full name of first joint inventor: Charles A. Kunsch

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 4083 Spalding Hollow Norcross, GA 30092 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Steven C. Barash

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 111 Watkins Pond Blvd. #301 Rockville, MD 20850 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor: Brian Dougherty

Inventor's signature: Brian Dougherty Date: 9/17/99  
Residence: 10 Rosemary Lane, Killingworth, CT 06419 Citizenship: US  
Post Office Address: same as above

Full name of additional joint inventor:

Michael R. Fannon

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 13501 Rippling Brook Drive, Silver Spring, MD 20906

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

Craig A. Rosen

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882

Citizenship: US

Post Office Address: same as above

09/06/2007 10:22:10